



**COPY**

**Applicants:** Zauderer *et al.*

**Due Date:** None

**Art Unit:** 1627

**Application No.:** 10/052,942

**Examiner:** Ponnaluri, P.

**Filed:** January 23, 2002

**Docket:** 1821.0090004

**For:** Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

**Atty:** EKS/EJH/TAC

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. SKGF cover letter;
2. Information Disclosure Statement (IDS);
3. Form PTO-1449 listing 117 documents (22 pages);
4. Copies of the 117 cited documents as listed on Form PTO-1449 (AA1-AK1; AA2-AK2; AA3-AJ3; AL1-AP2; AL3-AP3; AL4-AP4; AL5; AR1-AT1; AR2-AT2; AR3-AT3; AR4-AT4; AR5-AT5; AR6-AT6; AR7-AT7; AR8-AT8; AR9-AT9; AR10-AT10; AR11-AT11; AR12-AT12; AR13-AT13; AR14-AT14; AR15-AT15; AR16-AT16; AR17-AT17; AR18-AT18; AR19-AT19; AR20-AT20; AR21-AT21; and AR22); and
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*Hand Carry to Examiner Padmashri Ponnaluri  
Crystal Mall 1, Group 1627, 7<sup>th</sup> Floor Reception  
Examiner Ponnaluri's Phone No.: (703)305-3884*

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SKGF\_DC1:39623.1

**Applicants:** Zauderer *et al.*

**Application No.:** 10/052,942

**Filed:** January 23, 2002

**For:** Methods of Producing

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4. Copies of the 117 cited documents as listed  
AP2; AL3-AP3; AL4-AP4; AL5; AR1-AT  
AR8-AT8; AR9-AT9; AR10-AT10; AR11  
AT16; AR17-AT17; AR18-AT18; AR19-  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Zauderer *et al.*

Appl. No. 10/052,942

Filed: January 23, 2002

For: **Methods of Producing or  
Identifying Intrabodies in  
Eukaryotic Cells**

Confirmation No. 1028

Art Unit: 1627

Examiner: Ponnaluri, P.

Atty. Docket: 1821.0090004/EKS/EJH/TAC

**Information Disclosure Statement**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

The Examiner is referred to the following list of related, co-pending patent applications:

U.S. Patent Application No. 08/935,377, filed September 22, 1997, inventor Zauderer, M., is listed on the accompanying PTO-1449 forms as document AR20.

U.S. Provisional Patent Application No. 60/203,343, filed May 10, 2000, inventor Zauderer, M., *et al.*, is listed on the accompanying PTO-1449 forms as document **AS20**.

U.S. Patent Application No. 09/818,991, filed March 28, 2001, inventor Zauderer, M., is listed on the accompanying PTO-1449 forms as document **AT20**.

U.S. Patent Application No. 09/822,250, filed April 2, 2001, inventor Zauderer, M., is listed on the accompanying PTO-1449 forms as document **AR21**.

U.S. Patent Application No. 09/987,456, filed November 14, 2001, inventor Zauderer, M., is listed on the accompanying PTO-1449 forms as document **AS21**.

U.S. Patent Application No. 10/034,250, filed January 3, 2002, inventor Zauderer, M., is listed on the accompanying PTO-1449 forms as document **AT21**.

U.S. Patent Application No. 10/061,395, filed February 4, 2002, inventor Zauderer, M., *et al.*, is listed on the accompanying PTO-1449 forms as document **AR22**.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed after three months of the date of filing, but before the mailing date of a first Office Action on the merits or before the

mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Respectfully submitted,

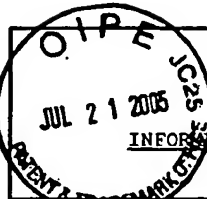
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.  
Attorney for Applicants  
Registration No. 42,613

Date: August 8, 2002

1100 New York Avenue, N.W.  
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Washington, D.C. 20005-3934  
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	FORM PTO-1449	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
	INFORMATION DISCLOSURE STATEMENT	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1627	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
JL	AA1	4,603,112	07/29/1986	Paoletti, E. et al.	435	235	12/08/1982
	AB1	4,656,134	04/07/1987	Ringold, G.M.	435	91	04/12/1985
	AC1	4,800,159	01/24/1989	Mullis, K.B. et al.	435	172.3	12/17/1986
	AD1	4,816,397	03/28/1989	Boss, M.A. et al.	435	68	03/23/1984
	AE1	4,861,581	08/29/1989	Epstein et al.	424	1.1	12/05/1986
	AF1	4,965,188	10/23/1990	Mullis, K.B. et al.	435	6	06/17/1987
	AG1	5,110,587	05/05/1992	Paoletti, E. et al.	424	89	06/14/1990
	AH1	5,445,953	08/29/1995	Dorner, F. et al.	435	172.3	08/26/1991
	AI1	5,576,195	11/19/1996	Robinson, R.R. et al.	435	69.8	12/09/1994
	AJ1	5,693,493	12/02/1997	Robinson, R.R. et al.	435	69.1	05/25/1995
	AK1	5,770,212	06/23/1998	Falkner, F.G. et al.	424	199.1	02/21/1997

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
JL	AL1	EP 0120694 A2	10/03/1984	Europe			Yes No
	AM1	EP 0120694 B1	10/03/1984	Europe			Yes No
	AN1	GB 2137631 A	10/10/1984	Great Britain			Yes No
	AO1	WO 86/01533 A1	03/13/1986	WIPO			Yes No
	AP1	EP 0200362 A2	12/10/1986	Europe			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JL	AR	1	Anderson, W.F., "Human Gene Therapy," Science 256:808-813, American Association for the Advancement of Science (1992)
	AS	1	Barbas III, C.F., et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," Proc. Natl. Acad. Sci. USA 88:7978-7982, National Academy Press (1991)
	AT	1	Belyavsky, A., et al., "PCR-based cDNA library construction: general cDNA libraries at the level of a few cells," Nucleic Acids Res. 17:2919-2932, Oxford University Press (1989)

EXAMINER	DATE CONSIDERED 10/21/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
JL	AA2	5,851,829	12/22/1998	Marasco et al.	435	328	03/30/1995
	AB2	5,910,486	06/08/1999	Curriel et al.	514	44	06/06/1995
	AC2	5,919,650	07/06/1999	Barbacid et al.	435	69.1	04/22/1990
	AD2	5,958,671	09/28/1999	Glimcher et al.	435	4	04/23/1996
	AE2	5,965,371	10/12/1999	Marasco et al.	435	7	05/09/1995
	AF2	6,004,940	12/21/1999	Marasco et al.	514	44	12/06/1994
	AG2	6,028,059	02/22/2000	Curriel et al.	514	44	06/24/1996
	AH2	6,072,036	06/06/2000	Marasco et al.	530	387.3	04/06/1999
	AI2	6,074,640	06/13/2000	Curriel et al.	424	130.1	10/30/1997
	AJ2	6,083,502	07/04/2000	Pastan et al.	424	178.1	01/12/1998
	AK2	6,143,520	11/07/2000	Marasco et al.	435	69.1	04/15/1998

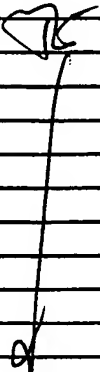
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
JL	AL2	EP 0201184 B1	12/17/1986	Europe			Yes No
	AM2	EP 0239400 A2	09/30/1987	Europe			Yes No
	AN2	EP 0239400 B1	09/30/1987	Europe			Yes No
	AO2	WO 88/06630 A1	09/07/1988	WIPO			Yes No
	AP2	EP 0368684 A1	05/16/1990	Europe			Yes No

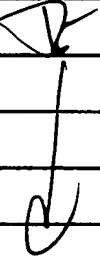
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
JL	AR	2	Boder, E.T., and Wittrop, D., "Yeast surface display for screening combinatorial polypeptide libraries," <i>Nature Biotech.</i> 15:553-557, Nature Publishing Group (1997)
	AS	2	Britton, P.J., "Expression of bacteriophage T7 RNA polymerase in avian and mammalian cells by a recombinant fowlpox virus," <i>J. Gen. Virology</i> 77:963-967, The Society for General Microbiology (1996)
	AT	2	Chames, P., and Baty, D., "Antibody engineering and its applications in tumor targeting and intracellular immunization," <i>FEMS Microbiol. Letts.</i> 189:1-8, Elsevier Science B.V. (August 2000)


EXAMINER	DATE CONSIDERED
JL	10/21/03

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	6,153,380	11/28/2000	Nolan et al.	435	6	01/23/1997
	AB3	6,153,430	11/28/2000	Pastan et al.	435	325	12/17/1998
	AC3	6,159,947	12/12/2000	Schweighoffer et al.	514	44	12/28/1995
	AD3	6,180,357 B1	01/30/2001	Young et al.	435	7.23	10/08/1999
	AE3	20010003777 A1	06/14/2001	Young et al.	530	388.8	11/29/2000
	AF3	20010008759 A1	07/19/2001	Marks, et al.	435	4	02/12/1999
	AG3	20010009665 A1	07/26/2001	Young et al.	424	155.1	11/29/2000
	AH3	6,291,158 B1	09/18/2001	Winter, G.P. et al.	435	6	08/21/1992
	AI3	6,291,159 B1	09/18/2001	Winter, G.P. et al.	435	6	08/21/1992
	AJ3	6,291,161 B1	09/18/2001	Lerner, R.A. et al.	435	6	09/04/1992
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	EP 0371998 B2	06/13/1990	Europe			Yes No
	AM3	WO 90/14430	11/29/1990	WIPO			Yes No
	AN3	WO 90/14443	11/29/1990	WIPO			Yes No
	AO3	WO 92/20791	11/26/1992	WIPO			Yes No
	AP3	WO 94/02610	02/03/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	3	Chen, S.-Y., et al., "Combined intra- and extracellular immunization against human immunodeficiency virus type 1 infection with a human anti-gp120 antibody," <i>Proc. Natl. Acad. Sci. USA</i> 91:5932-5936, National Academy of Sciences (1994)
	AS	3	Chen, S.-Y., et al., "Intracellular Antibodies as a New Class of Therapeutic Molecules for Gene Therapy," <i>Human Gene Therapy</i> 5:595-601, Mary Ann Liebert, Inc., (1994)
	AT	3	Clackson, T., et al., "Making antibody fragments using phage display libraries," <i>Nature</i> 352:624-628, Macmillan Magazines, Ltd. (1991)

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
JE	AL4	WO 97/08320	03/06/1997	WIPO			Yes No
	AM4	WO 99/14353	03/25/1999	WIPO			Yes No
	AN4	WO 00/28016	05/18/2000	WIPO			Yes No
	AO4	WO 00/69907	11/23/2000	WIPO			Yes No
	AP4	WO 01/72995 A2	10/04/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
JD	AR	4	Davies, J. and Riechmann L., "'Camelising' human antibody fragments: NMR studies on VH domains," <i>FEBS Lett.</i> 339:285-290, Elsevier Science Publishers B.V. (1994)
	AS	4	Davies, J. and Riechmann, L., "Antibody VH Domains as Small Recognition Units," <i>Bio/technology (NY)</i> 13:475-479, Nature America, Inc. (1995)
	AT	4	Duan, L., et al., "Molecular and Virological Effects of Intracellular Anti-Rev Single-Chain Variable Fragments on the Expression of Various Human Immunodeficiency Virus-1 Strains," <i>Human Gene Therapy</i> 5:1315-1324, Mary Ann Liebert, Inc. (1994)

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>JS</i>	AL5	CA 1,341,235	05/22/2001	Canada			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>JS</i>	AR	<u>5</u>	Elroy-Stein, O., et al., "Cytoplasmic expression system based on constitutive synthesis of bacteriophage T7 RNA polymerase in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 87:6743-6747, National Academy of Sciences (1990)
<i>JS</i>	AS	<u>5</u>	Ernst, W.J., et al., "Direct cloning into the <i>Autographa californica</i> nuclear polyhedrosis virus for generation of recombinant baculoviruses," <i>Nucleic Acids Research</i> 22:2855-2856, Oxford University Press (1994)
<i>JS</i>	AT	<u>5</u>	Fenner, F., "Genetic Studies with Mammalian Poxviruses," <i>Virology</i> 8:499-507, Academic Press, Inc. (1959)

EXAMINER <i>JS</i>	DATE CONSIDERED <i>1/24/02</i>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JB	AR	6	Fields, S. and Song, O-K., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340:245-246, Macmillan Magazines, Ltd. (1989)
	AS	6	Foote, J. and Winter, G., "Antibody Framework Residues Affecting the Conformation of the Hypervariable Loops," <i>J. Mol. Biol.</i> 224:487-499, Academic Press, Ltd. (1992)
	AT	6	Fuerst, T.R., et al., "Use of a Hybrid Vaccinia Virus-T7 RNA Polymerase System for Expression of Target Genes," <i>Mol. Cell. Biol.</i> 7:2538-2544, American Society for Microbiology (1987)




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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	1	Güssow, D., et al., "Generating Binding Activities from <i>Escherichia coli</i> by Expression of a Repertoire of Immunoglobulin Variable Domains," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 6:265-272, Cold Spring Harbor Laboratory Press (1989)
	AS	1	Hamers-Casterman, C., et al., "Naturally occurring antibodies devoid of light chains," <i>Nature</i> 363:446-448, Macmillan Magazines, Ltd. (1993)
	AT	1	Himly, M., et al., "Defective Vaccinia Virus as a Biologically Safe Tool for the Overproduction of Recombinant Human Secretory Proteins," <i>Protein Expr. Purif.</i> 14:317-326, Academic Press, Inc. (1998)

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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Holzer, G.W., et al., "Construction of a Vaccinia Virus Deficient in the Essential DNA Repair Enzyme Uracil DNA Glycosylase by a Complementing Cell Line," J. Virol. 71:4997-5002, American Society for Microbiology (1997)
	AS	8	Holzer, G.W., et al., "Highly Efficient Induction of Protective Immunity by a Vaccinia Virus Vector Defective in Late Gene Expression," J. Virology 73:4536-4542, American Society for Microbiology (1999)
	AT	8	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucleic Acids Res. 19:4133-4137, Oxford University Press (1991)

EXAMINER

DATE CONSIDERED

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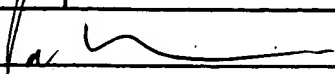
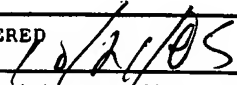
  

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	9	Huston, J.S., et al., "Protein Enigeering of Single-Chain Fv Analogs and Fusion Proteins," <i>Methods Enzymol.</i> 203:46-89, Academic Press, Inc. (1991)
	AS	9	Huynh, T., et al., "Constructing and Screening cDNA Libraries in λgt10 and λgt11," In: <i>DNA Cloning Vol. I, A Practical Approach</i> , Glover, D.M., (ed.), IRL Press, Oxford, pp. 49-78, (1985)
	AT	9	Jespers, L.S., et al., "Guiding the Selection of Human Antibodies from Phage Display Repertoires to a Single Epitope of an Antigen," <i>Bio/technology (NY)</i> 12:899-903, Nature America, Inc. (1994)

EXAMINER 	DATE CONSIDERED 
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP/609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1627

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
JF	AR	10	Kitamura, T., et al., "Efficient screening of retroviral cDNA expression libraries," <i>Proc. Natl. Acad. Sci. USA</i> 92:9146-9150, National Academy Press (1995)
l	AS	10	Marasco, W.A., et al., "Design, intracellular expression, and activity of a human anti-human immunodeficiency virus type 1 gp120 single-chain antibody," <i>Proc. Natl. Acad. Sci. USA</i> 90:7889-7893, National Academy of Sciences (1993)
d	AT	10	Marasco, W.A., et al., "Intrabodies: turning the humoral immune system outside in for intracellular immunization," <i>Gene Therapy</i> 4:11-15, Stockton Press (1997)

EXAMINER	DATE CONSIDERED
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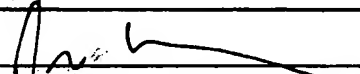
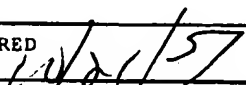
  

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	11	Marks, J.D., et al., "By-passing Immunization. Human Antibodies from V-gene Libraries Displayed on Phage," <i>J. Mol. Biol.</i> 222:581-597, Academic Press, Inc. (1991)
	AS	11	Marks, J.D., et al., "Oligonucleotide primers for polymerase chain reaction amplification of human immunoglobulin variable genes and design of family-specific oligonucleotide probes," <i>Eur. J. Immunol.</i> 21:985-991, John Wiley & Sons, Inc., (1991)
	AT	11	McCafferty, J., et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> 348:552-554, Macmillan Magazines, Ltd. (1990)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	12	Merchlinsky, M. and Moss, B., "Introduction of Foreign DNA into the Vaccinia Virus Genome by <i>in Vitro</i> Ligation: Recombination-Independent Selectable Cloning Vectors," <i>Virology</i> 190:522-526, Academic Press, Inc. (1992)
	AS	12	Merchlinsky, M., et al., "Construction and Characterization of Vaccinia Direct Ligation Vectors," <i>Virology</i> 238:444-451, Academic Press, Inc. (1997)
	AT	12	Mhashilkar, A.M., et al., "Inhibition of HIV-1 Tat-mediated LTR transactivation and HIV-1 infection by anti-Tat single chain intrabodies," <i>EMBO J.</i> 14:1542-1551, Oxford University Press (1995)

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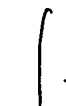

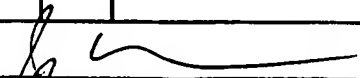


FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Miller, A.D., "Human gene therapy comes of age," <i>Nature</i> 357:455-460, Macmillan Publishers Ltd. (1992)
	AS	<u>13</u>	Millns, A.K., et al., "The Vaccinia Virus-Encoded Uracil DNA Glycosylase Has an Essential Role in Viral DNA Replication," <i>Virology</i> 198:504-513, Academic Press, Inc. (1994)
	AT	<u>13</u>	Moss, B., "Poxviridae and their Replication" in: <i>Virology</i> , 2d Edition, B.N. Fields, D.M. Knipe, et al., Eds., Raven Press, p. 2079-2111 (1990)
EXAMINER			DATE CONSIDERED <u>10/24/03</u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
	APPLICANT Zauderer et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Moss, B., "Vaccinia Virus: A Tool for Research and Vaccine Development," <i>Science</i> 252:1662-1667, American Association for the Advancement of Science (1991)
	AS	14	Okayama, H., et al., "High-Efficiency Cloning of Full-Length cDNA," <i>Mol. Cell. Biol.</i> 2:161-170, The American Society for Microbiology (1982)
	AT	14	Orlandi, R., et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86:3833-3837, National Academy Press (1989)

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	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1627

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

De	AR	15	Persic, L., et al., "Targeting vectors for intracellular immunisation," <i>Gene</i> 187:1-8, Elsevier Science B.V. (1997)
	AS	15	Pfleiderer, M., et al., "A novel vaccinia virus expression system allowing construction of recombinants without the need for selection markers, plasmids and bacterial hosts," <i>J. Gen. Virol.</i> 76:2957-2962, Society for General Microbiology (1995)
	AT	15	Pörtner-Taliana, A., et al., "In vivo selection of single-chain antibodies using a yeast two-hybrid system," <i>J. Immunological Meth.</i> 238:161-172, Elsevier Science B.V. (April 2000)

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	AM						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JA	AR	16	Richardson, J.H., et al., "Phenotypic knockout of the high-affinity human interleukin 2 receptor by intracellular single-chain antibodies against the $\alpha$ subunit of the receptor," <i>Proc. Natl. Acad. Sci. USA</i> 92:3137-3141, National Academy of Sciences (1995)
I	AS	16	Riechmann, L., et al., "Reshaping human antibodies for therapy," <i>Nature</i> 332:323-327, Macmillan Magazines, Ltd. (1988)
V	AT	16	Riechmann, L. and Muyldermans, S., "Single domain antibodies: comparison of camel VH and camelised human VH domains," <i>J. Immunol. Methods</i> 231:25-38, Elsevier Science Publishers B.V. (1999)

EXAMINER	DATE CONSIDERED 12/21/5
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1821.0090004	APPLICATION NO. 10/052,942
	APPLICANT Zauderer et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Rixon, F.J., et al., "Insertion of DNA sequences at a unique restriction enzyme site engineered for vector purposes into the genome of herpes simplex virus type 1," J. Gen. Virology 71:2931-2939, The Society for General Microbiology (1990)
	AS	17	Scheifflinger, F., et al., "Construction of chimeric vaccinia viruses by molecular cloning and packaging," Proc. Natl. Acad. Sci. USA 89:9977-9981, National Academy Press (1992)
	AT	17	Steinberger, P., et al., "Functional deletion of the CCR5 receptor by intracellular immunization produces cells that are refractory to CCR5-dependent HIV-1 infection and cell fusion," Proc. Natl. Acad. Sci. USA 97:805-810, National Academy of Sciences (January 2000)

EXAMINER 	DATE CONSIDERED 10/24/07
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	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1627

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JB	AR	18	Visintin, M., et al., "Selection of antibodies for intracellular function using a two-hybrid in vivo system," <i>Proc. Natl. Acad. Sci. USA</i> 96:11723-11728, National Academy of Sciences (1999)
J	AS	18	Ward, E.S., et al., "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> ," <i>Nature</i> 341:544-546, Macmillan Magazines, Ltd. (1989)
J	AT	18	Whitehead, I., et al., "Expression Cloning of Oncogenes by Retroviral Transfer of cDNA Libraries," <i>Mol. Cell. Biol.</i> 15:704-710, American Society for Microbiology (1995)

EXAMINER	DATE CONSIDERED 10/21/05
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	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1627

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>19</u>	Winter, G. and Milstein, C., "Man-made antibodies," <i>Nature</i> 349:293-299, Macmillan Magazines, Ltd. (1991)
	AS	<u>19</u>	Wong, G.G., et al., "Human GM-CSF: Molecular Cloning of the Complementary DNA and Purification of the Natural and Recombinant Proteins," <i>Science</i> 228:810-815, American Association for the Advancement of Science (1985)
	AT	<u>19</u>	Wu, G.Y., et al., "Receptor-mediated Gene Delivery and Expression in Vivo," <i>J. Biol. Chem.</i> 263:14621-14624, American Society for Biochemistry and Molecular Biology (1988)

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				<b>APPLICANT</b> Zauderer et al.			
				<b>FILING DATE</b> January 23, 2002		<b>GROUP</b> 1627	


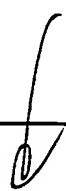

  

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>20</u>	Co-pending Non-Provisional U.S. Patent Application No. 08/935,377, Zauderer, M., et al., filed September 22, 1997
	AS	<u>20</u>	Provisional U.S. Patent Application No. 60/203,343, Zauderer, M., et al., filed May 10, 2000
	AT	<u>20</u>	Co-pending Non-Provisional U.S. Patent Application No. 09/818,991, Zauderer, M., et al., filed March 28, 2001

<b>EXAMINER</b> 	<b>DATE CONSIDERED</b> 1/24/02
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	21	Co-pending Non-Provisional U.S. Patent Application No. 09/822,250, Zauderer, M., filed April 2, 2001
	AS	21	Co-pending Non-Provisional U.S. Patent Application No. 09/987,456, Zauderer, M., et al., filed November 14, 2001
	AT	21	Co-pending Non-Provisional U.S. Patent Application No. 10/034,250, Zauderer, M., filed January 3, 2002

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
JS	AR	22	Co-pending Non-Provisional U.S. Patent Application No. 10/061,395, Zauderer, M., et al., filed February 4, 2002
	AS		
	AT		

EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	10/21/53

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Applicants: Zauderer *et al.*  
Application No.: 10/052,942  
Filed: January 23, 2002  
For: Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

Due Date: n/a  
Art Unit: 1639  
Examiner: Ponnaluri, P.  
Docket: 1821.0090004  
Atty: EKS/EJH/T-M

Applicants: Zauderer *et al.*  
Application No.: 10/052,942  
Filed: January 23, 2002  
For: Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

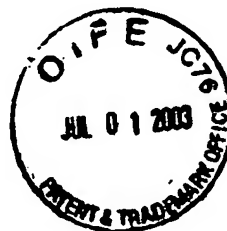
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Docket: 1821.0090004  
Atty: EKS/EJH/T-M

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. SKGF Cover Letter;
2. Second Supplemental Information Disclosure Statement;
3. Two pages of Form PTO-1449 citing five documents (AK3, AN5, AS22, AT22, and AR23);
4. A copy of each of the five cited documents; and
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In re application of:

Zauderer *et al.*

Appl. No. 10/052,942

Filed: January 23, 2002

For: **Methods of Producing or  
Identifying Intrabodies in  
Eukaryotic Cells**

Confirmation No. 1028

Art Unit: 1639

Examiner: Ponnaluri, P.

Atty. Docket: 1821.0090004/EJH/T-M

**Second Supplemental Information Disclosure Statement**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed on November 6, 2002, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

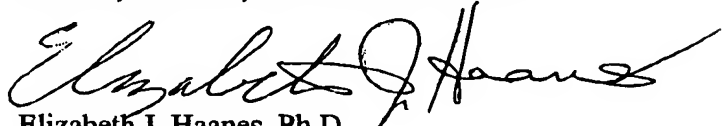
Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Second Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Elizabeth J. Haanes, Ph.D.  
Attorney for Applicants  
Registration No. 42,613

Date: July 1, 2003

1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
(202) 371-2600



FORM PTO-1449

**SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1821.0090004/EJH/T-MAPPLICATION NO.  
10/052,942APPLICANT  
Zauderer et al.FILING DATE  
January 23, 2002GROUP  
1639**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
JB	AK3	5,830,721	11/03/1998	Stemmer et al.			03/04/1996

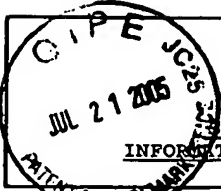
**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
JB	AN5	WO 99/30151	06/17/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR			
JB	AS	22	Griffiths, A.D., et al., "Isolation of high affinity human antibodies directly from large synthetic repertoires," <i>EMBO J.</i> 13:3245-3260, (1994)	
JB	AT	22	Smith, E.S., et al., "Lethality-based selection of recombinant genes in mammalian cells: Application to identifying tumor antigens," <i>Nat. Med.</i> 7:967-972, Nature Publishing Company (August 2001)	

EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	10/21/05
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

	FORM PTO-1449	ATTY. DOCKET NO. 1821.0090004/EJH/T-M	APPLICATION NO. 10/052,942
	SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	APPLICANT Zauderer et al.	
	FILING DATE January 23, 2002	GROUP 1639	


## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	23	Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," Nucl. Acids Res. 21:2265-2266, Oxford University Press (1993)
	AS		
	AT		

EXAMINER 	DATE CONSIDERED 10/21/0
--	-------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Applicants: Zauderer *et al.*

Application No.: 10/052,942

Filed: January 23, 2002

For: Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

Due Date: n/a

Art Unit: 1639

Examiner: Ponnaluri, P.

Docket: 1821.0090004

Atty: EKS/EJH/T-M

**COPY**

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. SKGF Cover Letter;
2. Third Supplemental Information Disclosure Statement;
3. One page of Form PTO-1449 citing two documents (AS23 and AT23);
4. A copy of each of the cited documents; and
5. One (1) return postcard.

**FILE COPY**

Please Date Stamp And Return To Our Courier

SKGF\_DC1:180077.1

Applicants: Zauderer *et al.*

Application No.: 10/052,942

Filed: January 23, 2002

For: Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

Due Date: n/a

Art Unit: 1639

Examiner: Ponnaluri, P.

Docket: 1821.0090004

Atty: EKS/EJH/T-M

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5. One (1) return postcard.



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ZAUDERER *et al.*

Appl. No. 10/052,942

Filed: January 23, 2002

For: **Methods of Producing or  
Identifying Intrabodies in  
Eukaryotic Cells**

Confirmation No. 1028

Art Unit: 1639

Examiner: Ponnaluri, P.

Atty. Docket:  
1821.0090004/EKS/EJH/T-M

**Third Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Third Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Second Supplemental Information Disclosure Statement filed on July 1, 2003, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

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be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Third Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

**Statement under 37 C.F.R. 1.704(d).** Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.<sup>1</sup>

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.  
Attorney for Applicants  
Registration No. 42,613

Date: September 22, 2003  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600

\\ODMAMHODMA\SKGF\_DC1:179681;2  
SKGF Rev. 12/1802 mac; Rev. 08/07/03 rvb

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<sup>1</sup> Please note that, due to inclement weather associated with Hurricane Isabel, the United States Patent and Trademark Office was closed on September 18 and 19, 2003.

FORM PTO-1449

THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1821.0090004/EKS/EJH/T-M

APPLICATION NO.  
10/052,942

APPLICANT  
Zauderer et al.

FILING DATE  
January 23, 2002

GROUP  
1639

## U.S. PATENT DOCUMENTS

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	AK						

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR			
JB	AS	23	Rondon, I.J., and Marasco, W.A., "Intracellular Antibodies (Intrabodies) For Gene Therapy of Infectious Diseases," <i>Annu. Rev. Microbiol.</i> 51:257-283, Annual Reviews Inc. (1997).	
JB	AT	23	International Search Report for International Application No. PCT/US02/01677, mailed August 19, 2003.	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.